		DEPARTMENT OF MECHANICAL ENGINEERING
		<u>LESSON PLAN</u>
Discipline: MECHANICAL	Semester: 3rd	Name of the Teaching faculty: Jayadeb dash
subject:	No of	Semester from Date: 01/07/2024 To Date: 08/11/2024
NVIRONME	Dáys/Week	No of weeks: 15
ITAL	class alloted:	
TUDIES	4	
Week	Class Day	Topics
1st	1	Explaining Multidisciplinary nature of environmental studies:
	2	DiscusingThe Multidisciplinary nature of environmental studies:
	3rd	Discusing Forest resources: Use and over-exploitation, deforestation, case studies.
	4th	DiscusingTimber extraction mining, dams and their effects on forests and tribal people.
2nd	1st	Explaining Water resources.
	2nd	Discusing Mineral Resources: Use and exploitation.
	3rd	Defing Environmental effects of extracting and using mineral resources.
	4th	Defing Food Resources: World food problems, changes caused by agriculture
3rd	1st	Discusing Effects of modern agriculture, fertilizers- pesticides problems, water logging, salinity.
	2nd	Explaining Energy Resources: Growing energy need, renewable and non-renewable
		energy sources.
	3rd	Discusing use of alternate energy sources, case studies.
	4th	DiscusingLand Resources: Land as a resource, land degradation, man induces landslides
4th	1st	Defing Soil erosion, and desertification.
	2nd	Explaining Role of individual in conservation of natural resources
	3rd	Explaining Equitable use of resources for sustainable life styles.
	4th	Explaining Concept of an eco system.
5th	1st	Defing Structure and function of an eco system.
	2nd	Explaining Producers, consumers, decomposers.
	3rd	ExplainingEnergy flow in the eco systems.
	4th	Explaining Ecological succession.
6th	1st	ExplainingFood chains, food webs
	2nd 3rd	Explaining Ecological pyramids. DiscusingForest ecosystem.
	4th	CLASS TEST 1, Previous year questions, quiz test
7th	1st	Explaining Aquatic eco systems (ponds, streams, lakes, rivers, oceans, estuaries).
	2nd	Introduction-Definition: genetics, species and ecosystem diversity.
	3rd	Explaining Biogeographically classification of India.
	4th	Explaining Value of biodiversity: consumptive use, productive use,
8th	1st	Discusing social ethical, aesthetic and optin values.
	2nd	Explaining Biodiversity at global national and local level.
	3rd	Discusing Threats to biodiversity: Habitats loss.
	4th	Explaining Poaching of wild life, man wildlife conflicts.
	1st	Definition Causes, effects and control measures of: Air pollution

9th	2nd	Definition Causes, effects and control measures of Water pollution.
	3rd	Definition Causes, effects and control measures of::Soil pollution
	4th	Definition Causes, effects and control measures of Marine pollution
10th	1st	Definition Causes, effects and control measures of: Noise pollution.
	2nd	Definition Causes, effects and control measures of: Thermal pollution
	3rd	Definition Causes, effects and control measures of: Nuclear hazards.
	4th	Discusing Solid waste Management: Causes, effects and control measures of urbar
11th	1st	Discusing Solid waste Management: industrial wastes.
	2nd	Explaining Role of an individual in prevention of pollution.
	3rd	Disaster management: Floods, earth quake, cyclone and landslides.
	4th	Explaining Form unsustainable to sustainable development.
	1st	Discusing Urban problems related to energy.
12th	2nd	Explaining Water conservation, rain water harvesting, water shed management.
	3rd	Discusing Resettlement and rehabilitation of people; its problems and concern.
	4th	CLASS TEST 2, Previous year questions, quiz
	1st	Discusing Environmental ethics: issue and possible solutions.
	2nd	Discusing Climate change, global warming, acid rain.
13th	3rd	Explaining Ozone layer doubtion, purpose accidents and L. L.
	4th	Explaining Ozone layer depletion, nuclear accidents and holocaust, case studies. Explaining Air (prevention and control of pollution) Act.
14th	1st	Explaining Water Insevention and control of pollution) Act.
	2nd	Explaining Water (prevention and control of pollution) Act. Explaining Public awareness.
	3rd	
	4th	Explaining Population growth and variation among nations.
	1st	Explaining Population explosion- family welfare program
	2nd	Discusing Environment and human health. Human rights. Value education
15th	3rd	Explaining Role of information technology in environment and human health.
		previous year question disscussion
Line Comment	4th	Previuos year questions, quiz
Vo	Title of the Book	Learning Resources:
	Textbook of	Name of Authors
	Environme	Erach Bharucha
	1 ntal studies Fundamental	
	concepts	
	in Environmental	
4000	2 Studies	D.D. Mishra, S.Chand
	Text book of Environmental	
	Studies	
	Studies	K.Raghavan Nambiar
	4 Environmental	
	Engineering	V M Domburghan Di
		V.M.Domkundwar, Dhanpat Rai & Co

